



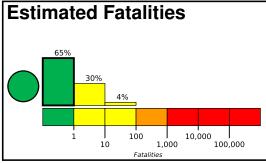


## PAGER Version 3

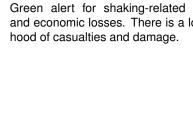
Created: 2 hours, 3 minutes after earthquake

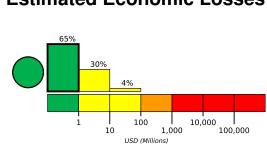
# M 5.4, 75 km NE of Hihifo, Tonga

Origin Time: 2021-10-06 15:54:20 UTC (Wed 03:54:20 local) Location: 15.4420° S 173.3277° W Depth: 35.0 km



Green alert for shaking-related fatalities **Estimated Economic Losses** and economic losses. There is a low likelihood of casualties and damage.





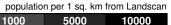
**Estimated Population Exposed to Earthquake Shaking** 

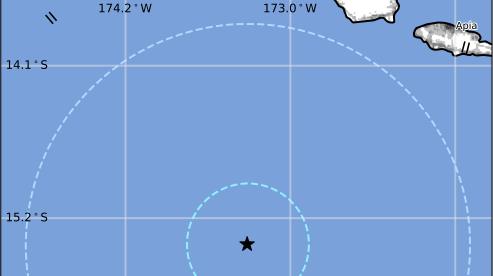
ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	183k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

#### Population Exposure

16.4°S





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#### Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unknown/miscellaneous types construction.

#### **Historical Earthquakes**

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1987-10-06	307	7.2	IV(19k)	_
1999-01-05	345	5.9	VII(15k)	_
2006-09-28	190	6.9	IV(197k)	0

### **Selected City Exposure**

from GeoNames.org

MMI	City	Population
Ш	Hihifo	1k
П	Gataivai	1k
П	Vailoa	1k
П	Lotofaga	1k
П	Mulifanua	5k
П	Leulumoega	1k
П	Safotulafai	<1k
II	Apia	40k
П	Faleula	3k
П	Lufilufi	1k
П	Samamea	0

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

Hihifo

bold cities appear on map.

(k = x1000)